



County of Los Angeles CHIEF EXECUTIVE OFFICE

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WILLIAM T FUJIOKA
Chief Executive Officer

April 8, 2009

To: Supervisor Don Knabe, Chairman
Supervisor Gloria Molina
Supervisor Mark Ridley-Thomas
Supervisor Zev Yaroslavsky
Supervisor Michael D. Antonovich

From: William T Fujioka
Chief Executive Officer

A handwritten signature in black ink, appearing to read "W. T. Fujioka", is written over the printed name and title.

Board of Supervisors
GLORIA MOLINA
First District

MARK RIDLEY-THOMAS
Second District

ZEV YAROSLAVSKY
Third District

DON KNABE
Fourth District

MICHAEL D. ANTONOVICH
Fifth District

FINAL REPORT BACK: BOARD MOTION 60B – 2008 SESNON AND MAREK WILDFIRES REPORT

On October 21, 2008, your Board directed the Chief Executive Officer (CEO) to work with the Fire Department (Fire), the Department of Public Works (DPW), the Community Development Commission/Housing Authority (CDC), the Sheriff Department (Sheriff), the Chief Information Office (CIO), and the California Public Utilities Commission (CPUC) to perform the following:

- Work with Fire and the CPUC to reevaluate the requirements for maintenance, care, and inspection of overhead transmission/power lines;
- Work with Fire to rehabilitate the burn area, including seeding, to prevent erosion and mudflow that may result from the October 2008 fires;
- Work with DPW to develop a long-term plan to ensure the stability and reliability of the Brown's Canyon Bridge in Chatsworth;
- Work with County departments and agencies to evaluate how they responded to the emergency and what steps can be taken to improve response times and public outreach during emergencies;

- Work with Fire, Sheriff, and the CIO to determine the feasibility of alerting residents concerning the outbreak of fires utilizing audible alarm systems, and provide status of implementing the "Reverse 911" telephone notification; and
- Report back regarding the ongoing needs of residents impacted by the Sesnon and Marek Fires, including other long-term policy issues addressing how County departments will plan for and respond to these emergencies.

Since the issuance of Board motion 60-B, the CEO along with all the named departments and agencies have collaborated to complete the Board directives included in the motion. The information provided in this report is the final response to your Board's direction.

Overview

On the morning of October 12 and 13, 2008, the County responded to the Sesnon and the Marek Fires and also supported neighboring counties and cities with other destructive fires. The Sesnon Fire erupted from apparent downed transmission lines owned by and located on property belonging to the Southern California Gas Company (So Cal Gas Co). Currently, the CPUC has no jurisdiction over transmission lines that belong to non-electric utilities located on private land; such as those that are the property of So Cal Gas Co.

Fire and Sheriff staff worked with mutual aid assets to battle the fires and evacuate victims from dangerous areas. This event led to a Local Emergency Proclamation and a State of Emergency Proclamation.

The initial emergency management response was handled by the Duty Officers from the CEO, Office of Emergency Management (OEM) and Sheriff, Emergency Operations Bureau (EOB). Operations then transitioned to the County Emergency Operations Center (CEOC), which was activated at 6:00 a.m. on Sunday, October 12, 2008. The CEOC activation focused on the overall coordination of the event and support for the affected local jurisdictions. The CEOC operated at a low level of activation from Sunday, October 12, 2008, until Wednesday, October 15, 2008, at which time OEM de-activated at 1:00 p.m.

The County initiated recovery activities by collecting initial damage estimates for County infrastructure estimating approximately \$6,097,386 for the Marek Fire and \$9,119,673 for the Sesnon Fire.

Following the response phase of the events, two (2) Local Assistance Centers (LACs) were opened. These Centers were located in the Kagel Canyon and Chatsworth areas. Numerous County departments, such as the Assessor's Office, Community and Senior Services, Consumer Affairs, Public Health/Environment Health, Public Social Services (DPSS), Mental Health, DPW Building Safety, Regional Planning, and the CDC/Section 8 were represented at the Centers. The County departments along with several State and Federal agencies provided a "one-stop shop" for fire victims to move forward with the recovery process.

Report on the Fire Chief and the California Public Utilities Commission's efforts to reevaluate the requirements for maintenance, care, and inspection of overhead transmission/power lines.

As a result of the 2007 and 2008 fires in Southern California, the CPUC approved an Order Instituting Rulemaking (OIR) for purposes of considering revision and clarification of the Commission's regulations designed to protect the public from potential hazards, including fires, which may be caused by electric utility transmission or distribution lines and communications infrastructure providers' facilities in proximity to the electric overhead transmission or distribution lines regulated by the CPUC.

The public comment and participation portion of Phase 1 of the OIR has now been completed. Three (3) workshops were held at the CPUC headquarters in San Francisco prior to the proposed rules being issued by the CPUC's Consumer Protection and Safety Division (CPSD) on March 6, 2009. An additional workshop was held on March 16, 2009, where CPSD's proposed rules were discussed. The County is a party to the OIR, has been present at all workshops, and has been an active participant in the rulemaking. County Counsel, working with Fire, CEO, and DPW, filed opening comments on the proposed rules on March 27, 2009. Reply comments will be due to the CPUC by April 8, 2009. The CPUC will consider the final proposed rules at its meeting on August 20, 2009. If approved, the new rules will be enacted prior to the Fall 2009 fire season.

Rules that are being considered for Phase 1 include:

- Making General Order (GO) 95 (substantive requirements) and GO 165 (inspection requirements) applicable to all California investor owned electric utilities, communications infrastructure providers, and publicly owned non-electric utilities owning or operating electric transmission or distribution facilities. The Sesnon Fire was caused by a power line owned by and located on property belonging to So Cal Gas Co.

- Prompt reporting and resolution of safety hazards discovered by utilities. This will include creation of a written record of hazard and of corrective action taken to remedy the safety hazard, maintenance of those reports for five (5) years, and a provision that the utility will provide the records to the CPUC upon request. The new rule will require that safety hazards or rule violations be corrected within 30 days. It will also require companies that share utility poles to notify each other of safety hazards.
- Requiring utilities to fully cooperate with CPUC investigations, to preserve evidence, and promptly make evidence and the identity of witnesses available to CPUC staff. It will also require electrical utilities to notify, within two (2) hours during normal business hours and within 4 hours outside of normal business hours, the CPUC of "reportable" incidents, including major fires attributable or allegedly attributable to the utility. In addition, within 20 days of a reportable incident, the utility shall provide the CPUC with a written account of the incident.
- Requiring that communications lines and equipment attached to a pole is properly identified so the owner can be contacted to report problems.
- Requiring every utility that installs equipment on a joint pole to conduct load calculations prior to installation to ensure the additional equipment complies with applicable requirements, to maintain those calculations, and to provide information to all pole owners and pole occupants. In addition, the rule will require results of intrusive pole inspections be provided upon request to any entity proposing to add equipment to an existing pole.
- Requiring utilities to collect information on all fire incidents, which are attributable or allegedly attributable, to their facilities and to report that information to the CPUC. Requires electric utilities to promptly report all major fire incidents to each tenant on joint use poles.
- Require annual inspections by electric utilities of electric lines, poles, and equipment in Southern California.

- Applying vegetation management requirements in Public Resources Code Section 4293 to all rural and heavily forested areas in Southern California, and make clearance requirements applicable all year instead of just during fire season. Requires removal of dead, rotten, and/or diseased trees that overhang or lean toward and may fall onto wires.
- Increasing the minimum clearance distances between vegetation and wires in Southern California based on the voltage of the wires involved. Requires utilities to consider extra precautions to ensure separation of wires in high wind areas.

Phase 2 of the OIR will be completed during the first half of 2010. Several of the issues proposed for Phase 1 of the OIR are technical issues that will require additional time and could not have been implemented prior to this Fall. For this reason, the CPUC chose to split this process into two (2) phases, so that issues that could be immediately addressed would be dealt with during Phase 1. Issues that will require more time to consider and implement, such as under-grounding, wind dangers, vegetation management issues, and measures that will require a formal environmental review will be considered during Phase 2.

Fire is also working on developing a power line inspection program that will involve power providers, both public and private, within the high fire hazard zones of Los Angeles County. Over the past several years, Fire and Southern California Edison (SCE) have worked together to provide joint inspections of SCE power lines in high hazard zones. Expanding the program to include inspections of all power providers' poles and lines will be a significant undertaking. Completing an inventory of all power providers in Los Angeles County is well underway. Initially, Fire will expand its program to include inspection of all publicly held utilities. A concurrent self-compliance program will be developed for private power providers in the high fire hazard zones of the County.

Participation in the CPUC's rulemaking process has provided significant insight to Fire as it develops new amendments and strengthens the existing fire codes related to power lines. Fire will provide any recommended code amendments to your Board on or before June 30, 2009.

Work with the Fire Chief to rehabilitate the burn area, including seeding, to prevent erosion and mudflow that may result from the October 2008 fires.

Sesnon Fire

The Sesnon Fire burned through several uninhabited canyons and affected the unincorporated communities of Brown's Canyon, Twin Lakes, and Indian Falls. The burn areas experienced mostly low to moderate-burn intensity, with some limited areas being affected by high-burn intensity.

Following the Sesnon Fire, a State Emergency Assessment Team completed a post-fire assessment. The post-fire assessment provided the following details:

- As this was a low to moderate-burn intensity, team members stated that seeding is not necessary and the area will recover naturally.
- Wildlife and botany experts are recommending careful and light use by the general public for a minimum of three (3) years to allow native habitat to recover on its own. Park officials will continue to carefully monitor the status of the public areas.
- During the fire, several control lines were cut by bulldozers and hand crews. After the fire, control lines were repaired by removing excess soil, erosion control contours were installed to avoid soil loss, and vegetation that was cut during the fire was used to cover bare soil and reduce surface erosion.
- During the rainy season, there was an expectation of increased run-off with possible debris flows; however, team members agreed that these debris flows would not exceed the capacity of the current storm drain system.
- To ensure the storm drain system works properly, culverts, catch basins, and drains should be cleared annually prior to Winter rains and monitored after each rain event. Most of these structures are in Los Angeles City's jurisdiction of Porter Ranch and Knoll wood, with a few south of the 118 freeway near Chatsworth.
- A debris basin, just north of the 118 freeway in Brown's Canyon, was found to have structural issues. The civil engineer who evaluated the sediment catchment basin noted that it is damaged in two (2) places and should be

repaired as soon as possible. Evidence uncovered during this review indicated that the damage is long-standing, but should there be a large storm event the possibility of failure may be present. There is, however, a concrete-lined box channel just south of the 118 freeway that appears sufficient to handle any high flows as a result of significant precipitation.

- Indian Falls, north of the 118 Freeway at Topanga canyon, has very rocky geology and the development is relatively new. The storm structures appeared in good working order and handled this Winter's run-off without issue.

Marek Fire

The Marek Fire affected Little Tujunga Canyon, Kagel Canyon, Lopez Canyon, Bailey Canyon, Limekiln Canyon, and Pacoima Canyon. The burn areas experienced mostly low to moderate-burn intensity, with some limited areas being affected by high-burn intensity.

Following the Marek Fire, a Burn Area Response Team completed a post-fire assessment. The post-fire assessment provided the following details:

- As this was a low to moderate-burn intensity, team members stated that seeding is not necessary, and the area will recover naturally.
- Wildlife and botany experts are recommending careful and light use by the general public for a minimum of three (3) years to allow native habitat to recover on its own. Park officials will continue to carefully monitor the status of the public areas.
- During the fire, several control lines were cut by bulldozers and hand crews. After the fire, control lines were repaired by removing excess soil, erosion control contours were installed to avoid soil loss, and vegetation that was cut during the fire was used to cover bare soil and reduce surface erosion.
- During the rainy season, there was an expectation of increased run-off with possible debris flows; however, team members agreed that these debris flows would not exceed the capacity of the current storm drain system.

- Engineers at DPW prepared site specific recommendations for several dozen residences in the Marek burn area. Installation of sandbags and necessary diversion devices mitigated the danger associated with heavy rainfall and debris flows.
- To ensure the storm drain system works properly, culverts, catch basins, and drains should be cleaned out annually prior to Winter rains and then monitored and cleaned out as needed after each rain event.

Work with the Director of Public Works to develop a long-term plan to ensure the stability and reliability of the Brown's Canyon Bridge in Chatsworth.

Due to jurisdictional issues, the development of a long-term plan to ensure the stability and reliability of the Brown's Canyon Bridge will require additional collaboration between the City of Los Angeles and the County of Los Angeles in communication with the residents and other property owners that use the bridge to access their property. DPW has held community meetings soliciting input from the residents as well as briefing them on the possible changes ahead as a plan is developed. Currently, DPW and City staff are engaged in deliberations regarding building costs and future maintenance responsibility of the bridge. Once the plan has been developed, DPW will submit the plan to your Board for further review.

Work with the County departments and agencies to evaluate how they responded to the emergency and what steps will be taken to improve response times and public outreach during emergencies.

CEO/OEM

OEM staff filled lead positions in the CEOC in the Management, Planning, Intelligence, and Finance/Administration/Recovery Sections. OEM staff also coordinated the LAC recovery operations and provided on-site management and logistical support.

As a result of this and other recent events, OEM conducted an internal analysis to assess their ability to ensure the County is able to prepare for, respond to, and recover from disasters. A report will be submitted to the Board within the next 60 days once the comprehensive analysis is complete.

Fire Department

Fire went through the process of gathering and analyzing information to develop a detailed, comprehensive post-incident analysis of the October 2008 fires. Fire anticipates this report will be ready in approximately 90 days and will file the report directly with the Board.

Sheriff Department

On October 12, 2008, at approximately 6:00 a.m., Sheriff activated two (2) Incident Management Teams for an "A" and "B" 12-hour shift which provided 24-hour assistance to the CEOC. They also deployed approximately 752 sworn staff members over the course of four (4) days. Mutual aid was used from Disaster Management Areas C, D, G, and F; deploying approximately 141 members, as well as approximately 323 sworn personnel from the Los Angeles Police Department.

Sheriff also staged their Mobile Command Post at the Hansen Dam for the Marek Fire and at the College of the Canyons for the Sesnon Fire. They further used their helicopter for reconnaissance purposes and one (1) Cadaver Dog.

Sheriff de-activated their Department Operations Center (DOC) on October 15, 2008, at approximately 6:00 p.m.

Department of Coroner

As the event progressed with two (2) fatalities reported, Coroner staff remotely monitored the event. They monitored communications with the CEOC and remained available for immediate response.

Department of Public Social Services – Care and Shelter

DPSS worked at the CEOC and assisted the American Red Cross in coordinating emergency shelters for approximately 334 fire evacuees. Approximately 4,529 meals were also served to the evacuees at the combined shelters.

The following shelters were activated:

Shelters	Overnight	Opened	Closed
Sylmar High School	21	10/13/2008	10/14/2008
San Fernando High School	126	10/12/2008	10/17/2008
Shepherd of the Hills Church	175	10/13/2008	10/16/2008
Canoga Park High School	12	10/13/2008	10/15/2008
TOTAL	334		

DPSS personnel also staffed two (2) LACs for the Marek and Sesnon Fires.

Department of Animal Care and Control (DACC)

In a combined effort, the Los Angeles City Animal Control and the County DACC evacuated cats and dogs that were displaced from the Castaic and Agoura Animal Shelters. It is unknown of the exact count that was transported to the Los Angeles City North East Valley Shelter, located in Mission Hills, California; however, both City and County agencies did have a count for the animals transported to the following shelters:

- Pierce College (located at 6201 Winnetka Avenue, Woodland Hills, California 91371): 159 horses, 2 goats, 1 pig, and 1 sheep;
- Hansen Dam Equestrian Center (located at 11127 Orcas Avenue, Sylmar, California 91342): 125 horses.

During the escalation of the evacuation process, issues surfaced regarding jurisdictional responsibility between the two (2) agencies that required clarification in regards to the proper identification of City and County boundaries. Both agencies are currently working together to properly identify the boundaries to resolve and eliminate future confusion.

Department of Public Works

DPW staffed the Construction and Engineering Branch of the Operations Section remotely during the activation (see Attachment). DPW Building and Safety also participated in staffing the two (2) LACs.

County Emergency Operations Center

The overall CEOC activation for the fires worked well. The CEOC was able to produce regular situation reports, action plans, and other reports for all shifts. The CEOC also kept the County executives updated on the progress of the events. All CEOC staff worked well during 12-hours shifts; providing 24-hours coverage during the emergency.

Recommendations to Improve Response Times and the Delivery of Service

In response to your Board's direction, the CEO lead a meeting of County departments and agencies to review and evaluate the response times and the delivery of service provided to the residents during these fire disasters. The discussions proved productive and focused on one major subject: To improve communications within the County and with the State and Federal agencies.

Therefore, the CEO has recommended and requested OEM to lead a taskforce that will develop a centralized communication protocol to be deployed in the event of any disaster. The task force will include representatives from County, State, and Federal agencies required to respond to disasters. The establishment of communication protocols will assist to improve the response times and delivery of service to the residents by:

- Formalize communication channels by developing a set of progressions that will determine response needs that are dependent on the size and scope of each emergency.
- Identify all critical players involved in disaster relief and assign roles to each agency in a response.

Beginning in June 2009, the CEO will provide your Board with quarterly status updates of the efforts to create and establish a centralized communications protocol.

Work with the Fire Chief, Sheriff, and the Acting Chief Information Officer to determine the feasibility of alerting residents concerning the outbreak of fires utilizing audible alarm systems and provide status of implementing the "Reverse 911" telephone notification.

On February 17, 2009, the Board voted to approve a five (5) year, \$5 million agreement between the County and Twenty First Century Communications for a mass notification system to be operated by the Sheriff. This system will improve service by notifying

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County residents via email, text, and voicemail when emergencies occur in defined geographic areas.

Fire has been working with Sheriff on evaluating audible alarm systems. Audible alarm systems are currently being used on the west coast, in neighborhoods surrounding nuclear power plants, to notify citizens of potential tsunamis and in other local jurisdictions where flooding or other potential hazards are present. In Los Angeles County, the City of Azusa maintains an audible alarm system at the mouth of Azusa Canyon to inform residents of both flood and fire hazards.

As local law enforcement is the primary agency that coordinates emergency evacuations, Fire will continue to coordinate research and development efforts with Sheriff.

Should you have any questions or need further information, please contact Deputy Chief Executive Officer Lari Sheehan, Community and Municipal Services, at (213) 893-2477 or lsheehan@ceo.lacounty.gov.

WTF:SRH:LS
JW:DC:llm

Attachment

c: Executive Officer, Board of Supervisors
 County Counsel
 Sheriff
 Animal Care and Control
 Assessor
 Chief Information Office
 Community Development Commission/Housing Authority
 Community and Senior Services
 Consumer Affairs
 Coroner
 Fire
 Mental Health
 Public Health
 Public Social Services
 Public Works
 Regional Planning

DEPARTMENT OF PUBLIC WORKS SITUATION STATUS

EVENT: Fires of October 12-16, 2008

STATUS AS OF 8:00 AM, October 16, 2008 – Final Report

EVENT SUMMARY

'Marek Fire' Burns 4,824 Acres

The fire is located above the community of Lake View Terrace in the City of Los Angeles, and forced evacuation of over 600 homes and one thousand residents as it scorched about 4,824 acres in the foothills and mountain areas. Numerous animal evacuations occurred.

Lopez Canyon and Tujunga Canyon were issued evacuation directives. Residents in Kagel Canyon are allowed limited access to their homes.

Evacuation centers were set up at San Fernando High School, Shepherd of the Hills, and Canoga Park High School. All LAUSD schools are open.

The Fire started early Sunday morning in the vicinity of the Angeles Shooting Range near Probation Camp Karl Holten and the Forest Service District Ranger HQ.

All evacuations in the fire area have been lifted. The Marek Fire is expected to be fully contained by 6:00 p.m. on Thursday, October 16, 2008,

'Sesnon Fire' near Porter Ranch area burns 14,125 acres

An out of control wildfire has scorched over 14,125 acres near Browns Canyon Road a few miles north of Chatsworth.

Mandatory evacuations were set up for residents in Browns Canyon, Tapo Canyon in Simi Valley, Dayton Canyon, Twin Lakes, and north of Bell Canyon road / west of L.A. County line. An evacuation center was set up for residents at Chatsworth High School. 14 schools were closed on Tuesday 10-14-08 due to the fire.

As of October 16, 2008, all evacuations in the fire area have been lifted. All LAUSD schools are open.

The fire was about 70% contained as of 7:00 a.m., Thursday, October 16, 2008. All roads have been opened.

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AVIATION

General Wm. J. Fox Airfield:

The US Forestry Service brought in five P-2 Neptune airplanes and four Skycrane helicopters that were staged at Fox Airfield in support of the fires. The P-2s were unable to be deployed until Tuesday afternoon due to high winds, and they began operations at 4pm Tuesday afternoon.

Whiteman Airport:

As of Wednesday, October 15, 2008, the airport was being used by several news helicopters and fire viewing by LAPD aircraft that were transporting VIPs including Mayor Villaraigosa. Since the fires began, a temporary flight restriction was imposed over the Airport, and only "emergency" flights and media flight were operating. As of late Tuesday morning, four fire-fighting helicopters, support vehicles, and refueling vehicles arrived to use Whiteman Airport as a base of operations for the next day or two. The fire-fighting crews and helicopters are with Cal Fire and U.S. Forestry Service and are engaged in reconnaissance and transportation of personnel and equipment as needed. The crews are expected to remain with the aircraft overnight as they anticipate operating around the clock. Airport management and operations staff has worked closely with the fire-fighting crews to provide parking and staging areas for their aircraft, support vehicles, and overnight trailers.

BRIDGES

No information reported.

CONSTRUCTION

No information reported.

COUNTY BUILDINGS

There are no reports of damage to County buildings.

FLOOD CONTROL SYSTEM

Marek Fire: According to the revised fire perimeter map the LA County Fire Department provided to Mapping/Property Management Division on 10/15, the eastern hillsides of Pacoima Reservoir (almost 200 acres) are burned. The eastern hillsides adjacent to Pacoima Wash from the dam to Gavina Avenue are also 100% burned. The tributary

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watershed to LACFCD's Lopez Channel Inlet is 100% burned. Much of the watershed (majority) of Kagel Canyon is also burned. The watersheds tributary to Cassara and Oliver Debris Basins appear to be unaffected, since the eastern boundary of the fire did not cross Little Tujunga Wash. Water Resources Division is out in the area today through Saturday assessing for post-fire mudflow impacts to County flood control facilities and unincorporated neighborhoods in Lopez and Kagel Canyons and Little Tujunga Wash. The residents therein who are potentially impacted by mudflows will be offered interim protection advice if they want it. A letter is being sent to City of LA ascertaining whether the City wants the County to assist City personnel in assessing potential post-fire mudflow impacts to City residents in Lakeview Terrace and the neighborhoods adjacent to Pacoima Wash.

Sesnon Fire: According to the revised fire perimeter map the LA County Fire Department provided to Mapping/Property Management Division on 10/15, the fire has jumped across the 118 Freeway into the Susana Pass Road area and also encroached into Ventura County. The entire Browns Canyon watershed above the 118 Freeway was burned, impacting LACFCD's Browns Sediment Placement Site, Browns Creek Channel, and some upstream crib dam structures in upper Browns Canyon and Devils Canyon. Also burned are the majority of the debris-producing watersheds of Aliso and Limekiln Debris Basins. The watershed of Bull Creek appears to be unaffected. County flood control facilities and unincorporated neighborhoods in and adjacent to Browns Canyon will be assessed by Water Resources Division within the next week for potential post-fire mudflow impacts. The residents therein who are potentially impacted by mudflows will be offered interim protection advice if they want it. A letter is being sent to City of LA ascertaining whether the City wants the County to assist City personnel in assessing potential post-fire mudflow impacts to City residents in Porter Ranch.

Flood Maintenance Division had about \$5,000 damage to rail and timber channel walls at the upstream entrance to Browns Creek at the 118 freeway. They also spent about 20 man hours inspecting their facilities and evacuating the two dam operators from their homes.

Water Resources Division's current estimate for the costs associated with the post-fire assessment and advice in the unincorporated neighborhoods in the two fire areas is \$110,000.

PRIVATE PROPERTY

LA County Fire Reported one home, one garage, three sheds, and more than 37 mobile homes have been lost in the wind-driven Marek Fire, with 5 percent containment. These numbers are preliminary.

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A private bridge in the Brown's Canyon was partially burned by the Sesnon Fire. Road Maintenance Division is working with Mapping and Property Management Division to verify if the Department has rights to inspect the private bridge to determine damages. Building and Safety is also investigating if the Department has rights to inspect the private bridge under the Building Code.

ROADS AND HIGHWAYS

MD 5 has a slide restoration project with Mtn Ops near wildlife waystation on Little Tujunga. Equipment there was left in a fairly protected area and two other trucks were left at Camp Karl Holten in a turnout. Fire apparently burned near there, but due to downed power lines, no traffic in/out of the Camp yesterday.

RD 553 contacted by County Fire to start removing fallen rock/limbs from Little Tujunga Canyon Rd, Kagel Cyn Rd, and Lopez Cyn Rd. There are approximately 22 trees that will need to be removed along Kagel Cyn Rd and Lopez Canyon Road. RD 553 also reports several trees along Little Tujunga Cyn Road will need further evaluation to determine if they need to be removed as they were heavily scorched.

Traffic Painting and Sign Posting: No requests received yet for services related to road closures or facility replacement. Note we are not typically first responders in a situation like this, especially at such an early stage. We anticipate the need to work with RMD and TNL to install revised signage and delineation to harden road closures and establish detour routes. We anticipate shortly surveying affected major streets to assess damages. Streets include, but not limited to, Lopez Canyon, Kagel Canyon, and Little Tujunga. Also, at first opportunity, we will be surveying the affected roads to replace damaged signs and striping/pavement markings.

Operational Services Division's anticipated costs are in the vicinity of \$8,000.

Electrical: We have very few electrical traffic control devices in the vicinity of the fires and received no related calls. To date, and subject to change, it appears like there will be little need for major electrical repairs.

Road Closures:

County Roadways:

Refer to the attached report from our Road Closure Website.

Road Maintenance Division (MD5) preliminary damage estimate for the Marek Fire:

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- Initial fire response and debris removal – \$3,000
- Replace burned culvert outlet extension on Lopez Cyn Rd. at MM0.9- \$6,500
- Replace burned guardrail posts on an existing guardrail on Lopez Cyn. Rd at MM2.1- \$5,500
- Remove damaged trees by the fire - \$ 45,000
- Replace burned culvert markers - \$1,500
- Storm prep for culvert inlets - \$1,300

SANITARY SEWERS

We experienced various power outages at sewage pump stations and wastewater treatment plants (could be due to wind, fire, or other). Apparently we did have an overflow in Diamond Bar due to power outage (Indian Creek PS, a remote location). Also, some of the covers over the aeration tanks at the Trancas Treatment Plant were blown off. Otherwise, we did not suffer any damage from the fires and no facilities are currently threatened.

WATERWORKS

Facilities in Kagel Canyon area:

- The evacuation of Kagel Canyon has been lifted however the power is still out.
- The East and West Tanks have approximately 75,000 gallons of water remaining (5 to 6 feet).
- The auxiliary City Booster is running and filling the tanks at about 150 gallons per minute.
- Mark Carney turned off the water at a few homes where residents left with the water running.
- The site of Well No. 21-5 was completely burned. Note - this site has not been used by the District since the well was made inactive.
- The fire burned all around the East Tank site and burned the electrical panel, wiring, and several power poles. Note - these are non-essential facilities (i.e. lighting, etc.).
- Several ARVs and fire hydrants in the District were burned/damaged.
- The Fire Department confirmed that no fire hydrants went dry during the fire suppression work.
- Estimated Public Works Staff Response for Waterworks Division for the firestorm is \$80,000.00
- Estimated Public Works Infrastructure preliminary damage is \$120,000.

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- Damage estimates for private property is unknown.

Reviewed by: VA

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